BIRCH, STEWART, KOLASCH & BIRCH, LLP

PLEASE NOTE: YOU MUST COMPLETE THE FOLLOWING P.O. Box 747 • Falls Church, Virginia 22040-0747 Telephone: (703) 205-8000 • Facsimile: (703) 205-8050

COMBINED DECLARATION AND POWER OF ATTORNEY FOR PATENT AND DESIGN APPLICATIONS

As a below named inventor, I hereby declare that: my residence, post office address and citizenship are as stated next to my name; that I verily believe that I am the original, first and sole inventor (if only one inventor is named below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

| Insert Title: | COMPARATOR CIRCUIT | | | | | | | |
|--|--|--------------------|-----------------------|----------------------------|---------------------|-------------------------|--------------|--|
| Fill in Appropriate Information - | the specification of which is attached hereto. If not attached hereto, the specification was filed on | | | | | | as | |
| For Use Without Specification Attached: | the specification was filed on | | | | | (if amplicable) and (an | | |
| | and amended on the specification was filed on | | | | | as PCT | | |
| | International Application Number | | | | | ; and was | | |
| | amended on | | | | | (if applicable) | | |
| | I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, a amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federa Regulations, §1.56. I do not know and do not believe the same was ever known or used in the United States of America before my or our invention thereof, or patented or described in any printed publication in any country before my or our invention thereof or more than one year prior to this application, that the same was not in public use or on sale in the United States of America more than one year prior to this application, that the invention has not been patented or made the subject of an inventor's certificate issued before the date of this application, in any country foreign to the United States of America on an application filed by me or my leading the part of the same or my leading the part of the patents of the pate | | | | | | | |
| | date of this application in any country foreign to the United States of America on an application filed by me or my legal representative or assigns more than twelve months (six months for designs) prior to this application, and that no application for patent or inventor's certificate on this invention has been filed in any country foreign to the United States of America prior to this application by me or my legal representatives or assigns, except as follows. I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed: | | | | | | | |
| | Prior Foreign Applic | cation(s) | | | | Priority (| Claimed | |
| Insert Priority Information: | 2002-243270 | Japan | | August/23/200 | 2 | Ø | | |
| (if appropriate) | (Number) | (Country) | | (Month/Day/Yea | ar Filed) | Yes | No | |
| | (Number) | (Country) | _ | (Month/Day/Yea | ar Filed) | □ Yes | □ No | |
| | (Number) | (Country) | | (Month/Day/Yea | ar Filed) | ☐ Yes | □ No | |
| | (Number) | (Country) | | (Month/Day/Yea | ar Filed) | □ Yes | □ No | |
| | I hereby claim the bene | efit under Title 3 | 5, United States Code | e, §119(e) of any United S | tates provisional a | pplications(s) l | isted below. | |
| Insert Provisional Application(s): (if any) | (Application Number) | | | (Filing Date) | | | | |
| | (Application Number) | | | (Filing Date) | <u>.</u> | | | |
| | All Foreign Applications, if any, for any Patent or Inventor's Certificate Filed More than 12 Months (6 Months for Designs) Prior to the Filing Date of This Application: | | | | | | | |
| | Country | | Application Numb | er Dat | e of Filing (Month | /Day/Year) | | |
| Insert Requested Information: (if appropriate) | | | | | | | | |
| | I hereby claim the benefit under Title 35, United States Code, §120 of any United States and/or PCT application(s) listed below and insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclos information which is material to the patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application. | | | | | | | |
| Insert Prior U.S. Application(s): (if any) | (Application Number) | | (Filing Date) | (Sta | itus - patented, pe | nding, abandor | ned) | |
| Page 1 of 2 (Rev. 12/19/01) | (Application Number) | | (Filing Date) | (Sta | itus - patented, pe | nding, abandor | ned) | |

I hereby appoint the practitioners at CUSTOMER NO. 2292 as my attorneys or agents to prosecute this application and/or an international application based on this application and to transact all business in the United States Patent and Trademark Office connected therewith and in connection with the resulting patent based on instructions received from the entity who first sent the application papers to the practitioners, unless the inventor(s) or assignee provides said practitioners with a written notice to the contrary:

Send Correspondence to:

BIRCH, STEWART, KOLASCH & BIRCH, LLP or CUSTOMER NO. 2292

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PLEASE NOTE: YOU MUST COMPLETE THE FOLLOWING:

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

| Full Name of First or Sole Inventor: | GIVEN NAME/FAMILY NAME | INVENTOR'S SIGNATURE | | DATE* | | | | |
|--|---|--|------------|---------------|--|--|--|--|
| Full Name of First or Sole Inventor: Insert Name of Inventor → Insert Date This Document is Signed | Akio NAKAJIMA | akio nakazima | | July 10,200 | | | | |
| Insert Residence | Residence (City, State & Country) | | CITIZENSHI | | | | | |
| Insert Citizenship → | Kitakatsuragi-gun Nara Japan | | Japanese | | | | | |
| Insert Mailing Address → | MAILING ADDRESS (Complete Street Address including City, State & Country) | | | | | | | |
| | 449, Minamiimaichi Taima-cho Kitakatsuragi-gun Nara 639-2151 Japan | | | | | | | |
| Full Name of Second Inventor, if any: see above | GIVEN NAME/FAMILY NAME | INVENTOR'S SIGNATURE | | DATE* | | | | |
| | Kohichi FURUTA | Holichi Furu | ta | July 10, 2003 | | | | |
| | Residence (City, State & Country) | | CITIZENSHI | | | | | |
| | Nara-shi Nara Japan | | Japanese | | | | | |
| | MAILING ADDRESS (Complete Street Address including City, State & Country) | | | | | | | |
| | 1028-18, Fujiwara-cho Nara-shi Nara 630-8421 Japan | | | | | | | |
| Full Name of Third Inventor, if any: see above | GIVEN NAME/FAMILY NAME | INVENTOR'S SIGNATURE | | DATE* | | | | |
| | Residence (City, State & Country) | | CITIZENSHI | P | | | | |
| | MAILING ADDRESS (Complete Street Address including City, State & Country) | | | | | | | |
| Full Name of Fourth Inventor, if any: see above | GIVEN NAME/FAMILY NAME | INVENTOR'S SIGNATURE | | DATE* | | | | |
| | Residence (City, State & Country) | CITIZENSHIP | | | | | | |
| | MAILING ADDRESS (Complete Street Address including City, State & Country) | | | | | | | |
| Full Name of Fifth | GIVEN NAME/FAMILY NAME | INVENTOR'S SIGNATURE | | DATE* | | | | |
| Inventor, if any: see above | GIVEN NAIVE/ PANIL I NAIVE | INVENTOR'S SIGNATURE | | DATE | | | | |
| | Residence (City, State & Country) | | CITIZENSHI | P | | | | |
| | MAILING ADDRESS (Complete Street Address including City, State & Country) | | | | | | | |
| | | | | | | | | |
| Full Name of Sixth Inventor, if any: see above | GIVEN NAME/FAMILY NAME | INVENTOR'S SIGNATURE | | DATE* | | | | |
| | Residence (City, State & Country) | | CITIZENSHI | P | | | | |
| | MAILING ADDRESS (Complete Street Address including City, State & Country) | | | | | | | |
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| | | . | | | | | | |

Page 2 of _ 2 (Rev. 12/19/01)

^{*}DATE OF SIGNATURE

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| Insert Title: | COMPARATOR CIRCUIT | | | | | | | |
|--|---|---|---|--|---|--|--|--|
| Fill in Appropriate Information - | | | d hereto. If not attached he | | | as | | |
| For Use Without Specification | the specification was filed on | | | | (if applicable | and/or | | |
| Attached: | | | | as PCT | | | | |
| | International Application Number | | | ; and was | | | | |
| | amended on | | | | , . | plicable) | | |
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| | Regulations, §1.56. I do not know and do not believe the same was ever known or used in the United States of America before my or our inven | | | | | | | |
| | thereof, or patented of year prior to this application date of this application that the presentative or assipatent or inventor's capplication by me or I hereby claim for inventor's certificat | or described in polication, that ton, that the in ion in any co- gns more than gns more than the pricate on the my legal repre- preign priority e listed below | n any printed publication in the same was not in publi vention has not been pate buntry foreign to the Union twelve months (six mon us invention has been file | n any country before my or our c c use or on sale in the United Sta tted or made the subject of an in- ted States of America on an ap ths for designs) prior to this appl in any country foreign to the Ur tas follows. nited States Code, §119(a)-(d) of a elow any foreign application for p | invention thereof or a stes of America more ventor's certificate iss plication filed by me ication, and that no a sited States of Americ | more than one than one year ued before the or my legal application for a prior to this | | |
| | Prior Foreign Appl | | . , | | Priority (| Claimed | | |
| Insert Priority | 2002-243270 | Japan | | August/23/2002 | | | | |
| Information: (if appropriate) | (Number) | (Country) | | (Month/Day/Year Filed) | Yes | No | | |
| | | | | | . 🗆 | | | |
| | (Number) | (Count | y) | (Month/Day/Year Filed) | Yes | No — | | |
| | (Number) | (Count | y) | (Month/Day/Year Filed) | . D Yes | □ No | | |
| | | | | | | | | |
| | (Number) | (Country) | | (Month/Day/Year Filed) | Yes | No | | |
| | I hereby claim the ber | nefit under Tit | le 35, United States Code, § | 119(e) of any United States provis | ional applications(s) l | isted below. | | |
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| | (Application Number) | | | (Filing Date) | | | | |
| | All Foreign Applications, if any, for any Patent or Inventor's Certificate Filed More than 12 Months (6 Months for Designs) Prior to the Filing Date of This Application: | | | | | | | |
| | Country Application Number | | | Date of Filing (| Month/Day/Year) | | | |
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| Insert Prior U.S. | | | | | | | | |
| Application(s): (if any) | (Application Number |) | (Filing Date) | (Status - paten | ted, pending, abandor | ned) | | |
| Page 1 of 2 (Rev. 12/19/01) | (Application Number | ·) | (Filing Date) | (Status - paten | ted, pending, abandor | ned) | | |

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| Name of First | | , | | | | | | |
|--|---|--------------------------------------|------------|----------------|--|--|--|--|
| Name of First : Sole Inventor: rt Name of ventor → rt Date This ocument is Signed | GIVEN NAME/FAMILY NAME | INVENTOR'S SIGNATURE | | DATE* | | | | |
| t Date This ocument is Signed | Takao MATSUI | Takao Matsui | | July. 11. 2003 | | | | |
| sert Residence sert Citizenship → | Residence (City, State & Country) | | CITIZENSHI | P | | | | |
| t Citizenship → | Kashihara-shi Nara Japan | | Japanese | | | | | |
| Mailing dress → | MAILING ADDRESS (Complete Street Addre | ess including City, State & Country) | | | | | | |
| | 413, Okubo-cho kashihara-shi Nara 634-0061 Japan | | | | | | | |
| ill Name of Second Inventor, if any: see above | GIVEN NAME/FAMILY NAME | INVENTOR'S SIGNATURE | | DATE* | | | | |
| | Residence (City, State & Country) | | CITIZENSHI | P | | | | |
| | MAILING ADDRESS (Complete Street Address including City, State & Country) | | | | | | | |
| II Name of Third | GIVEN NAME/FAMILY NAME | INVENTOR'S SIGNATURE | | DATE* | | | | |
| ventor, if any: see above | l ' | | | | | | | |
| | Residence (City, State & Country) | | CITIZENSHI | P | | | | |
| | MAILING ADDRESS (Complete Street Address including City, State & Country) | | | | | | | |
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| Il Name of Fourth Inventor, if any: see above | GIVEN NAME/FAMILY NAME | INVENTOR'S SIGNATURE | | DATE* | | | | |
| | Residence (City, State & Country) | | CITIZENSHI | P | | | | |
| | MAILING ADDRESS (Complete Street Address including City, State & Country) | | | | | | | |
| Name of Eigh | | | | | | | | |
| II Name of Fifth Inventor, if any: see above | GIVEN NAME/FAMILY NAME | INVENTOR'S SIGNATURE | | DATE* | | | | |
| | Residence (City, State & Country) | | CITIZENSHI | P | | | | |
| | MAILING ADDRESS (Complete Street Address including City, State & Country) | | | | | | | |
| Il Name of Sixth Inventor, if any: see above | GIVEN NAME/FAMILY NAME | INVENTOR'S SIGNATURE | | DATE* | | | | |
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Page 2 of _ ² (Rev. 12/19/01)

*DATE OF SIGNATURE